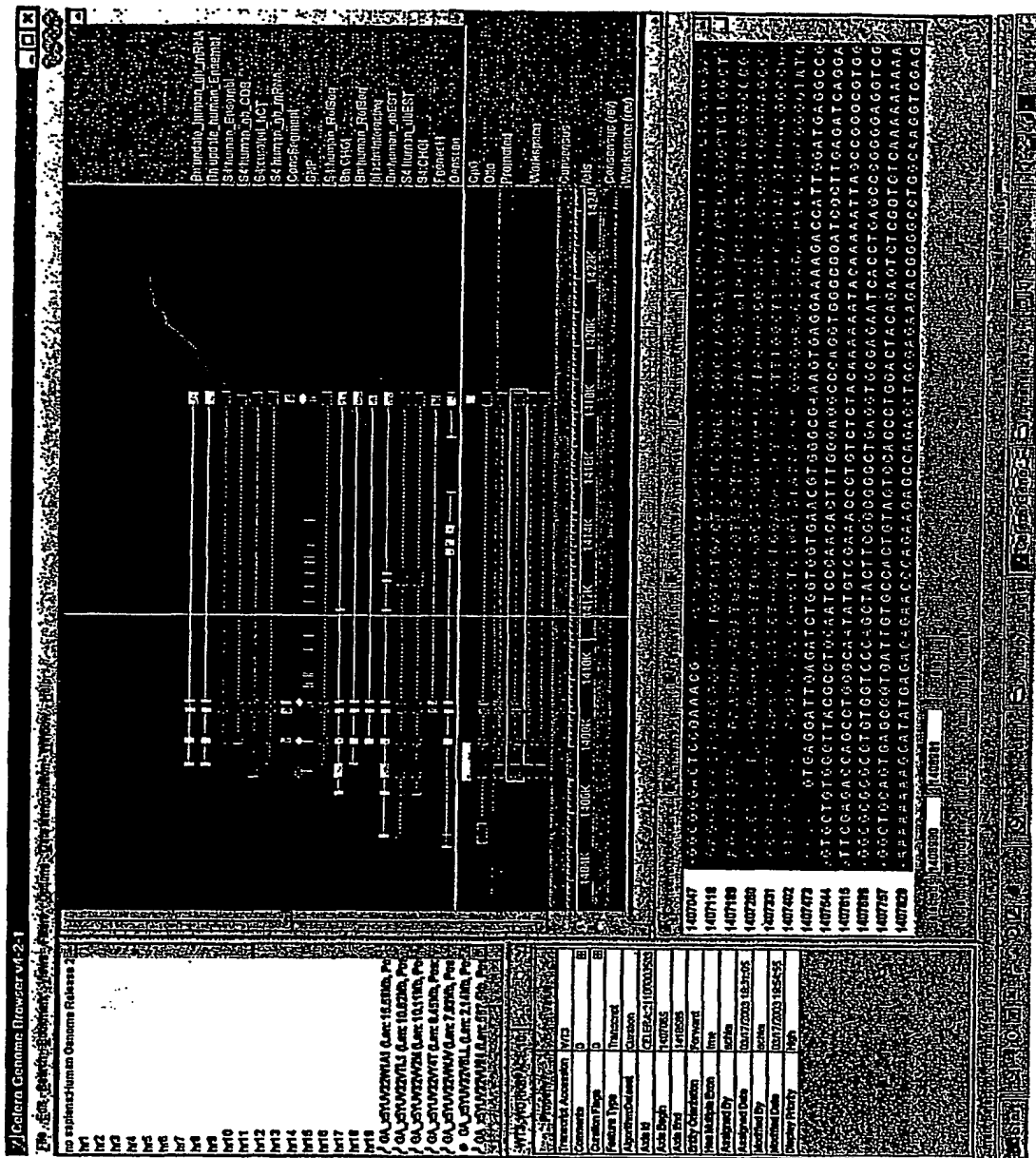


FIG 1

Alignment of celera DKKL1 transcript with novel splice variants



Best Available Copy

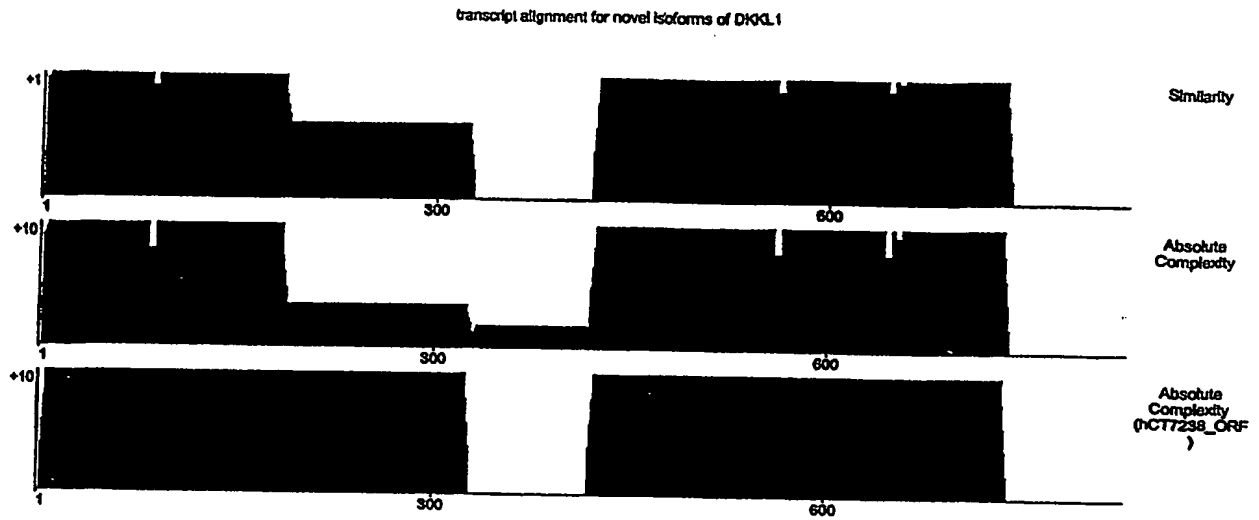


FIG. 2

Best Available Copy



## transcript alignment for novel isoforms of DKKL1

## Section 4

	(193)	193	200	210	220	230	240	256
hCT7238 ORF (189)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
sgrs0379-stop (193)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R6 (193)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R7 (193)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R3 (193)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-RS2 (193)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R8 (193)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-RS3 (193)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R4 (189)		-----						
clone-379-R5 (189)		-----						
clone-379-R2 (189)		-----						
clone-379-RS7 (189)		-----						
clone-379-RS4 (189)		-----						

## Section 5

	(257)	257	270	280	290	300	310	320
hCT7238 ORF (253)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
sgrs0379-stop (257)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R6 (257)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R7 (257)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R3 (257)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-RS2 (257)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R8 (257)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-RS3 (257)		ATGCTTCTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R4 (189)		-----						
clone-379-R5 (189)		-----						
clone-379-R2 (189)		-----						
clone-379-RS7 (189)		-----						
clone-379-RS4 (189)		-----						

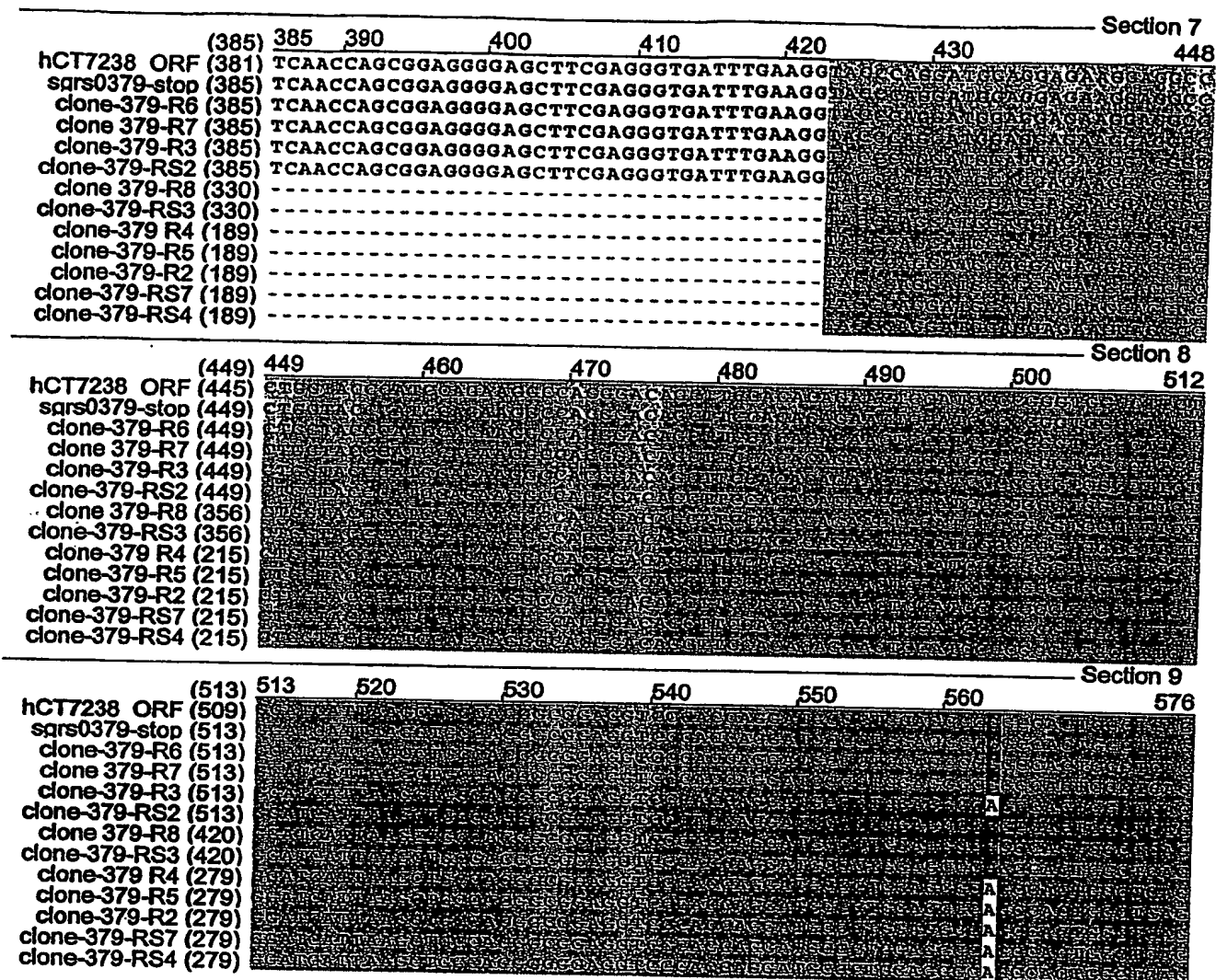
## Section 6

	(321)	321	330	340	350	360	370	384
hCT7238 ORF (317)		ATGACCGACAACAAGACAGGAGAGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
sgrs0379-stop (321)		ATGACCGACAACAAGACAGGAGAGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R6 (321)		ATGACCGACAACAAGACAGGAGAGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R7 (321)		ATGACCGACAACAAGACAGGAGAGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R3 (321)		ATGACCGACAACAAGACAGGAGAGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-RS2 (321)		ATGACCGACAACAAGACAGGAGAGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R8 (321)		ATGACCGACAACAAGACAGGAGAGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-RS3 (321)		ATGACCGACAACAAGACAGGAGAGGTGCTGATCTCCGAGAATGTGGTGGCATCCAT						
clone-379-R4 (189)		-----						
clone-379-R5 (189)		-----						
clone-379-R2 (189)		-----						
clone-379-RS7 (189)		-----						
clone-379-RS4 (189)		-----						

FIG. 3B

Best Available Copy

## transcript alignment for novel isoforms of DKKL1



**Best Available Copy**

FIG. 3C



## transcript alignment for novel isoforms of DKKL1

	(769)	769	780	790	800	810	823	Section 13
hCT7238 ORF (765)		ATCAGACCCTGCCCCAAGCACC	TATGGAAATAAAGTTCTTTCTT				ACATCTAACA	
sgs0379-stop (734)		-----	-----	-----	-----	-----	-----	
clone-379-R6 (734)		-----	-----	-----	-----	-----	-----	
clone-379-R7 (734)		-----	-----	-----	-----	-----	-----	
clone-379-R3 (734)		-----	-----	-----	-----	-----	-----	
clone-379-RS2 (734)		-----	-----	-----	-----	-----	-----	
clone-379-R8 (641)		-----	-----	-----	-----	-----	-----	
clone-379-RS3 (641)		-----	-----	-----	-----	-----	-----	
clone-379-R4 (500)		-----	-----	-----	-----	-----	-----	
clone-379-R5 (500)		-----	-----	-----	-----	-----	-----	
clone-379-R2 (500)		-----	-----	-----	-----	-----	-----	
clone-379-RS7 (500)		-----	-----	-----	-----	-----	-----	
clone-379-RS4 (500)		-----	-----	-----	-----	-----	-----	

FIG. 3E

Best Available Copy

## protein alignment for novel isoforms of DKKL1

## Section 1

	(1)	1	10	20	30	48
hCP35274.2	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of DKKL1-pending chris	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of clone 379-R6	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of clone 379-R7	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of clone-379-R3	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of clone-379-RS2	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of clone 379-R8	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of clone-379-RS3	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of clone-379 R4	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of clone-379-R5	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of clone-379-R2	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of clone-379-RS7	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				
Translation of clone-379-RS4	(1)	MQGASPPAPRHHLLTLLPTLSELVESKVAEEDDAAGQVQVHNGY				

## Section 2

	(49)	49	60	70	80	96
hCP35274.2	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of DKKL1-pending chris	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of clone 379-R6	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of clone 379-R7	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of clone-379-R3	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of clone-379-RS2	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of clone 379-R8	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of clone-379-RS3	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of clone-379 R4	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of clone-379-R5	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of clone-379-R2	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of clone-379-RS7	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				
Translation of clone-379-RS4	(49)	VNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGYVNDGQVQVHNGY				

## Section 3

	(97)	97	110	120	130	144
hCP35274.2	(97)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of DKKL1-pending chris	(97)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of clone 379-R6	(97)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of clone 379-R7	(97)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of clone-379-R3	(97)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of clone-379-RS2	(97)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of clone 379-R8	(97)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of clone-379-RS3	(97)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of clone-379 R4	(62)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of clone-379-R5	(62)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of clone-379-R2	(62)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of clone-379-RS7	(62)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				
Translation of clone-379-RS4	(62)	RTDNKTGEVLISENVVASIQPAEGSFEGDLK				

FIG. 4A

Best Available Copy



## protein alignment for novel isoforms of DKKL1

Section 4

	(145)	145	150	160	170	180	192
hCP35274.2 (145)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of DKKL1-pending chris (145)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone 379-R6 (145)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone 379-R7 (145)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-R3 (145)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-RS2 (145)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone 379-R8 (114)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-RS3 (114)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379 R4 (67)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-R5 (67)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-R2 (67)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-RS7 (67)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-RS4 (67)		ESALVPTQKATDSFATLQGVVA					RTSE

Section 5

	(193)	193	200	210	220	230	240
hCP35274.2 (193)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of DKKL1-pending chris (193)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone 379-R6 (193)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone 379-R7 (193)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-R3 (193)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-RS2 (193)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone 379-R8 (162)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-RS3 (162)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379 R4 (115)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-R5 (115)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-R2 (115)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-RS7 (115)		ESALVPTQKATDSFATLQGVVA					RTSE
Translation of clone-379-RS4 (115)		ESALVPTQKATDSFATLQGVVA					RTSE

Section 6

	(241)	248
hCP35274.2 (241)		ESALVPTQKATDSFATLQGVVA
Translation of DKKL1-pending chris (241)		ESALVPTQKATDSFATLQGVVA
Translation of clone 379-R6 (241)		ESALVPTQKATDSFATLQGVVA
Translation of clone 379-R7 (241)		ESALVPTQKATDSFATLQGVVA
Translation of clone-379-R3 (241)		ESALVPTQKATDSFATLQGVVA
Translation of clone-379-RS2 (241)		ESALVPTQKATDSFATLQGVVA
Translation of clone 379-R8 (210)		ESALVPTQKATDSFATLQGVVA
Translation of clone-379-RS3 (210)		ESALVPTQKATDSFATLQGVVA
Translation of clone-379 R4 (163)		ESALVPTQKATDSFATLQGVVA
Translation of clone-379-R5 (163)		ESALVPTQKATDSFATLQGVVA
Translation of clone-379-R2 (163)		ESALVPTQKATDSFATLQGVVA
Translation of clone-379-RS7 (163)		ESALVPTQKATDSFATLQGVVA
Translation of clone-379-RS4 (163)		ESALVPTQKATDSFATLQGVVA

FIG. 4B

Best Available Copy